



REPORT No.: SZ26070402W01

TEST REPORT

APPLICANT : Shenzhen Qiyun Technology Co., Ltd.

PRODUCT NAME : Radar Detectors

MODEL NAME : VT-V7, VT- V1,VT- V2, VT-V3, VT-V5,
VT-V8,VT- V9,VT- E8, VT-M8,
VT-STR535, VT-STR750,

BRAND NAME : N/A

FCC ID : 2BXSC-VT-V7

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2026-06-29

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. The Channel Number and Frequency	4
1.4. DESCRIPTION OF THE TEST MODES	4
1.5. Test Standards and Results	4
1.6. Environmental Conditions	5
2. 47 CFR Part 15C Requirements	5
2.1. Antenna Requirement	5
2.2. Occupied Bandwidth	6
2.3. Conducted Emission	8
2.4. Field Strength of Fundamental and Restricted Frequency Bands	10
2.5. Radiated Emission and Field Strength of Harmonic	15
Annex A Test Uncertainty	33
Annex B Testing Laboratory Information	34
Notes	38

Change History		
Version	Date	Reason for change
1.0	2026-08-08	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Shenzhen Qiyun Technology Co., Ltd.
Applicant Address:	Floor 8, No.71 Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen
Manufacturer:	Shenzhen Qiyun Technology Co., Ltd.
Manufacturer Address:	Floor 8, No.71 Langkou Industrial Park, Langkou Community, Dalang Street, Longhua District, Shenzhen

1.2. Equipment Under Test (EUT) Description

Product Name:	Radar Detectors
Model:	VT-V7
Serial Model:	VT-V1,VT- V2, VT-V3, VT-V5, VT-V8,VT- V9,VT- E8, VT-M8, VT-STR535, VT-STR750, VT-STR5000,VT-STR6000,VT-T31, VT-T51,VT-T80,VT-T86,VT-T95,VT-RAD2100,VT-RAD2300, VT-Y9800,VT-Y9880
Serial Model Difference:	The circuit design, layout, used components and internal wiring of the above models are all the same. The only difference is the model number and color.
Sample No.:	1#
Hardware Version:	/
Software Version:	/
Operating Frequency:	24-24.25GHz
Modulation Technique:	FMCW
Channel Number:	1
Antenna Type:	Horn Antenna
Antenna Gain:	13.03 dBi

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



1.3. The Channel Number and Frequency

Channel	Frequency (GHz)
1	24-24.25

1.4. DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description	Modulation
Mode 1	TX LINK (24GHz)	FMCW

Note: After the prototype is powered on, it automatically enters the transmission mode.

1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	/
2	15.215 2.1049	Occupied Bandwidth	Jul. 14, 2026	Zhu Peihong	PASS	/
3	15.207	Conducted Emission	Jul. 21, 2026	Wang Yapeng	PASS	/
4	15.249	Field Strength and Restricted Frequency Bands	Aug. 05, 2026	Tian Xin	PASS	/
5	15.209, 15.249	Radiated Emission and Field Strength of Harmonic	Aug. 05, 2026	Tian Xin	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in ANSI



C63.10-2020.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

1.6. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2. 47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

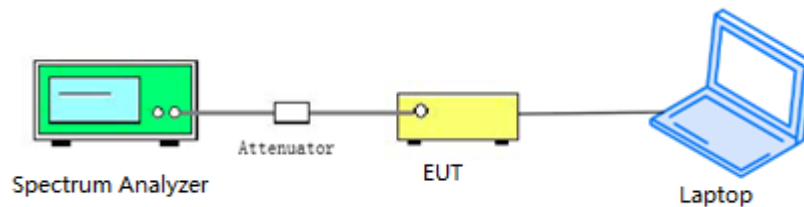
2.2. Occupied Bandwidth

2.2.1. Requirement

Refer to FCC 15.215

2.2.2. Test Description

Test Setup:



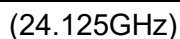
The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) in the range of 1% to 5% of the measured bandwidth and video bandwidth (VBW) shall be approximately three times RBW.



A.Test Verdict:

B.Test Plot:



2.3. Conducted Emission

2.3.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

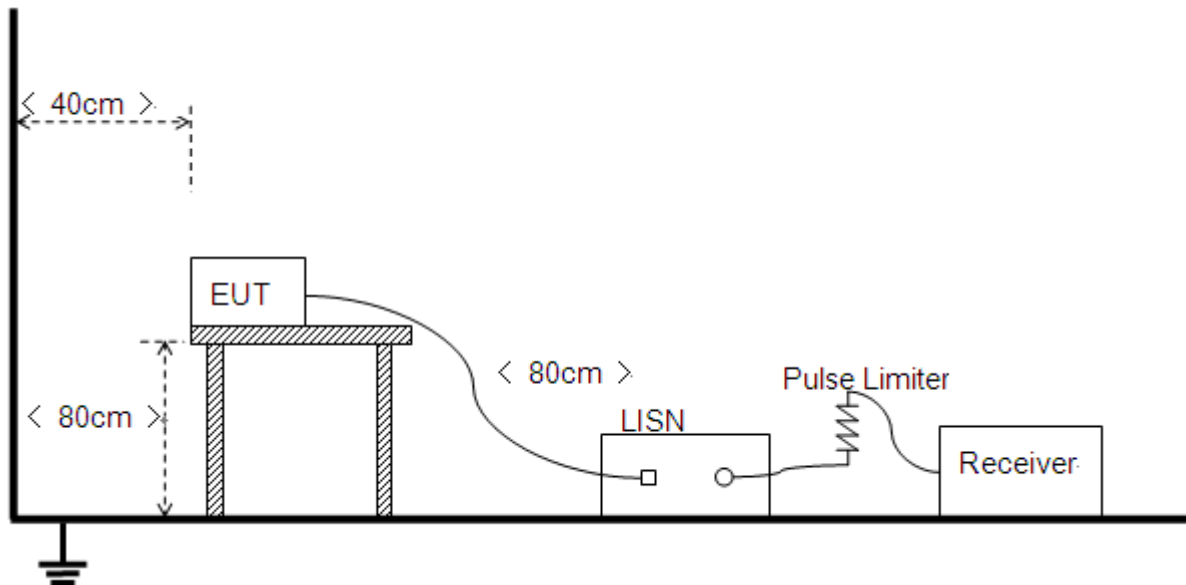
Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.3.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10.



2.3.3. Test Procedure

Use the following receiver settings:

Span = wide enough to fully capture the emission being measured

RBW = 9 kHz

VBW = 30 kHz

Sweep = auto

Detector function = Quasi peak and Average

Trace = max hold

2.3.4. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the Average and Quasi peak limits, and that have narrow margins from the Average and Quasi peak limits will be re-measured with Average and Quasi peak detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT+Adapter+Data Cable+24GHz TX

Test voltage: AC 120V/60Hz

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R \text{ [dB}\mu\text{V]} + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}} \text{ [dB]}$$

U_R : Receiver Reading

A_{Factor} : Voltage division factor of LISN

Note: EUT operates by DC power ,so is not applicable

2.4. Field Strength of Fundamental and Restricted Frequency Bands

2.4.1. Requirement

According to FCC section 15.249(a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

The field strength of emissions appearing within the restricted frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.

Devices operated in the 24.0-24.25 GHz band under § 15.249 are exempt from complying with the restricted frequency bands requirements of this section for the 48.0-48.5 GHz and 72.0-72.75 GHz bands only, and shall not exceed the limits specified in § 15.249(a).

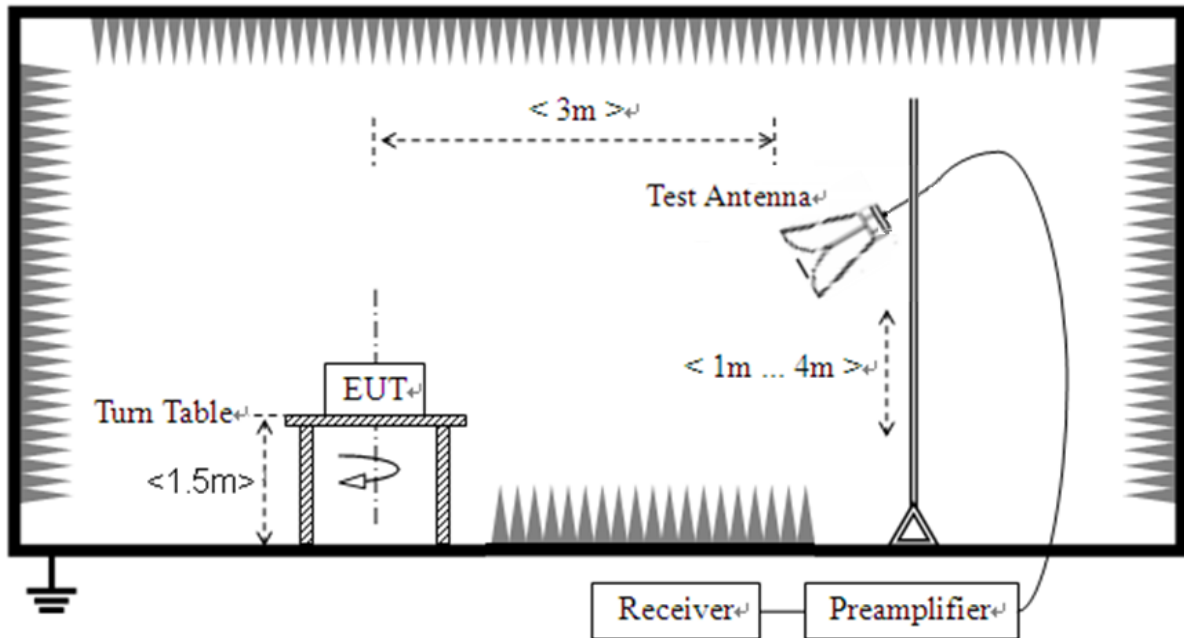
Frequency	Field strength of fundamental (microvolts/meter)	Field strength of harmonics (dB μ V/m)
23.6 - 24.0 GHz	500	54

The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Limitation expressed in μ V/m is calculated by $20\log$ Emission Level(μ V/m). Limitation expressed in mV/m is calculated by $20\log$ Emission Level(mV/m) + 60dB.

2.4.2. Test Description

Test Setup:



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.4.3. Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold



2.4.4. Test Result

Note: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition(Y) was recorded in this test report.

Prescan Emission level(dB μ V/m) = U_R [dB μ V] + A_T [dB] + A_{Factor} [dB/m]; $A_T = L_{Cable\ loss}$ [dB] - G_{preamp} [dB]

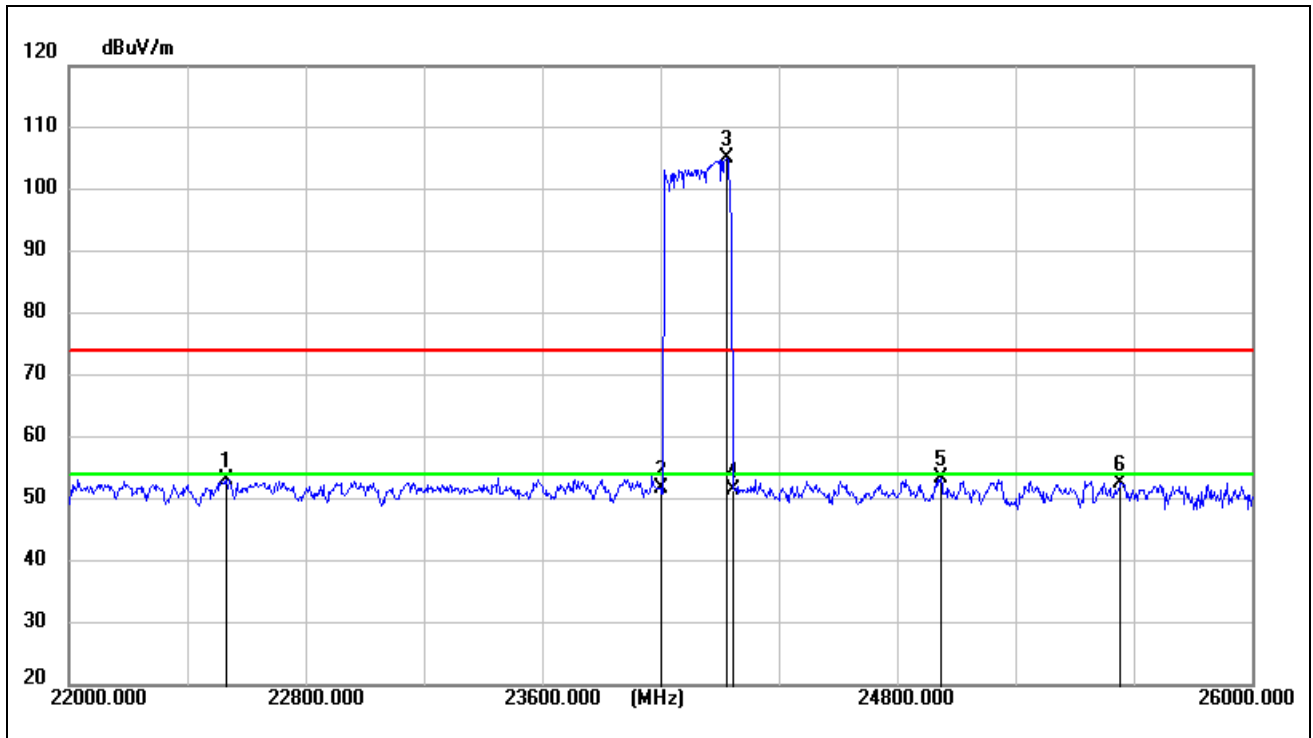
$L_{Cable\ loss}$ [dB] = L_{Mixer} [dB] + L_{IF} [dB]

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

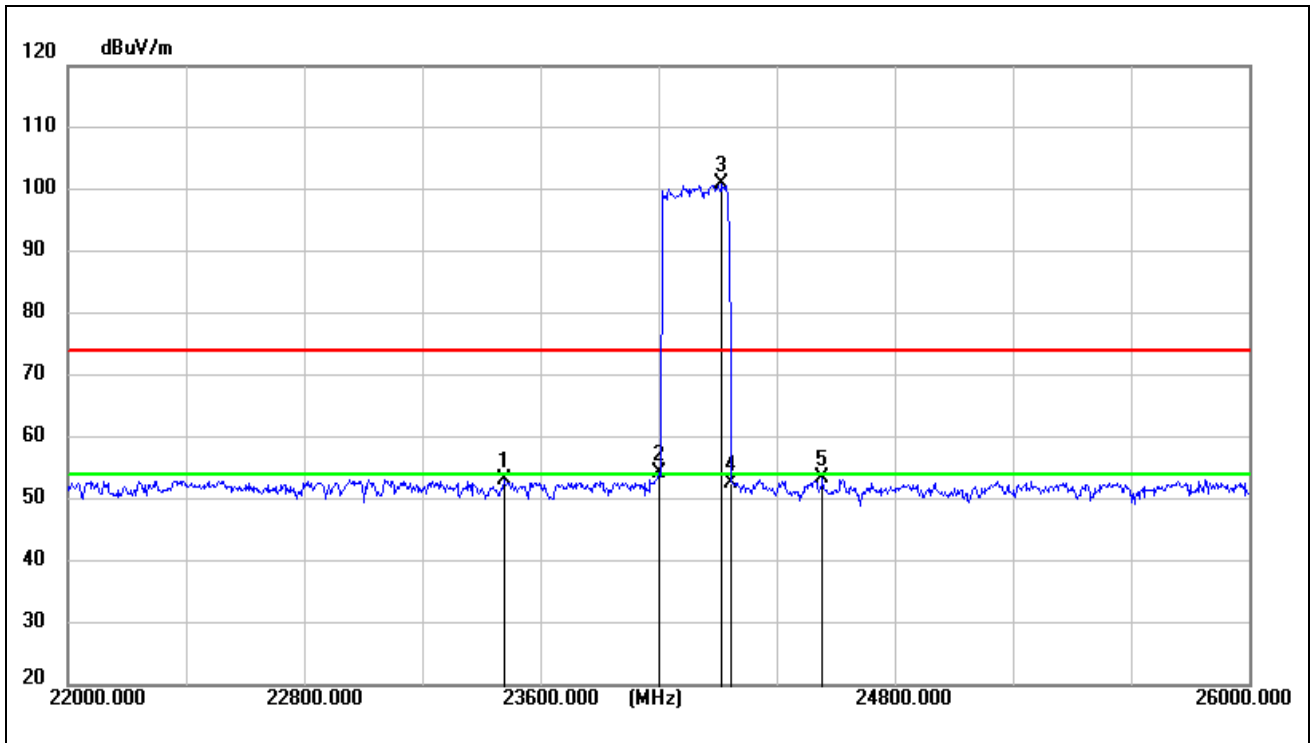


No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22532.0000	49.21	3.91	53.12	74.00	-20.88	peak	Pass
2	24000.0000	47.29	4.63	51.92	74.00	-22.08	peak	Pass
4	24250.0000	46.81	4.67	51.48	74.00	-22.52	peak	Pass
5	24948.0000	48.24	5.24	53.48	74.00	-20.52	peak	Pass
6	25556.0000	47.02	5.67	52.69	74.00	-21.31	peak	Pass

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3 *	24224.0000	100.43	4.66	-	105.09	127.96	-22.87	peak
3 *	24224.0000	100.43	4.66	-34.83	70.26	107.96	-37.7	AVG

(Test Antenna Horizontal)



No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	23476.0000	49.21	4.11	53.32	74.00	-20.68	peak	Pass
2	24000.0000	49.55	4.63	54.18	74.00	-19.82	peak	Pass
4	24250.0000	48.03	4.67	52.70	74.00	-21.30	peak	Pass
5	24556.0000	48.70	4.79	53.49	74.00	-20.51	peak	Pass

Fundamental Frequency

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Duty cycle Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3 *	24216.0000	96.35	4.67	-	101.02	127.96	-26.94	peak
3 *	24216.0000	96.35	4.67	-34.83	66.19	107.96	-41.77	AVG

(Test Antenna Vertical)

2.5. Radiated Emission and Field Strength of Harmonic

2.5.1. Requirement

According to section 15.249(a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

According to section 15.249(d), Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)	Field Strength Limitation at 3m Measurement Distance	
			(uV/m)	(dBuV/m)
0.009 - 0.490	2400/F(kHz)	300	10000* 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 - 1.705	24000/F(kHz)	30	100* 2400/F(KHz)	20log 2400/F(KHz) + 40
1.705 - 30.0	30	30	100*30	20log 30 + 40
30 - 88	100	3	100	20log 100
88 - 216	150	3	150	20log 150
216 - 960	200	3	200	20log 200
Above 960	500	3	500	20log 500

According to section 15.249(e), for frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

Note:

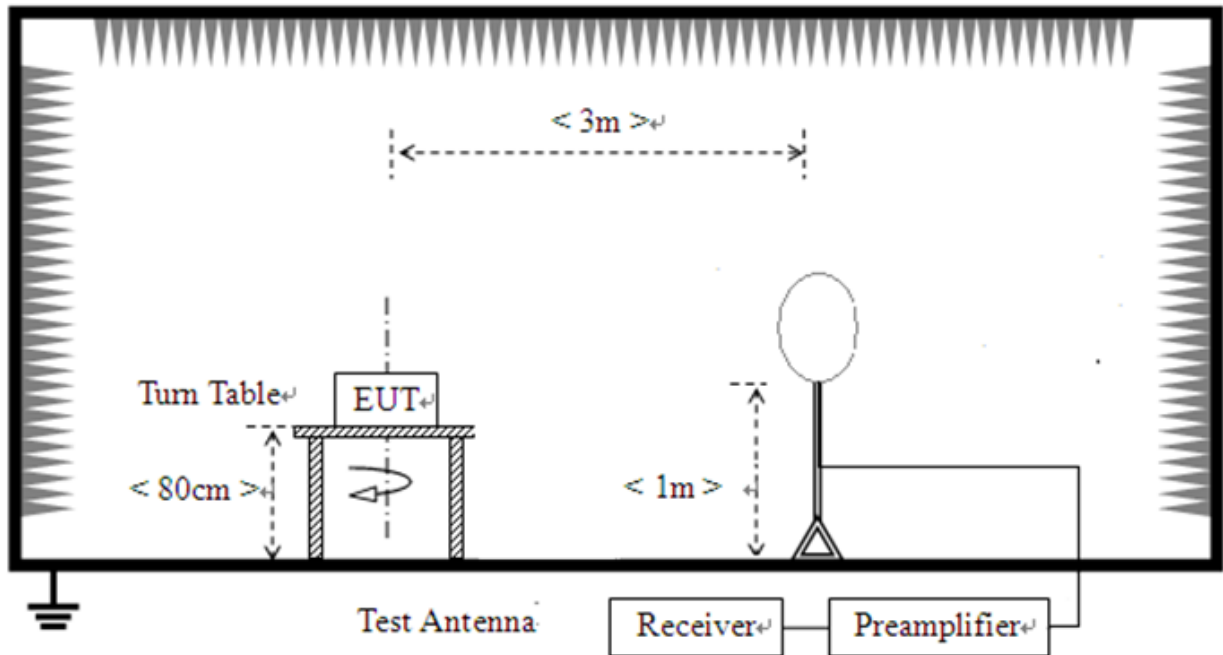
- 1) The tighter limit shall apply at the boundary between two frequency range.
- 2) Limitation expressed in dBuV/m is calculated by 20log Emission Level(uV/m).
- 3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)^2$.

Example: F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as $L_{d1} = L_1 = 30uV/m * (10)^2 = 100 * 30uV/m$

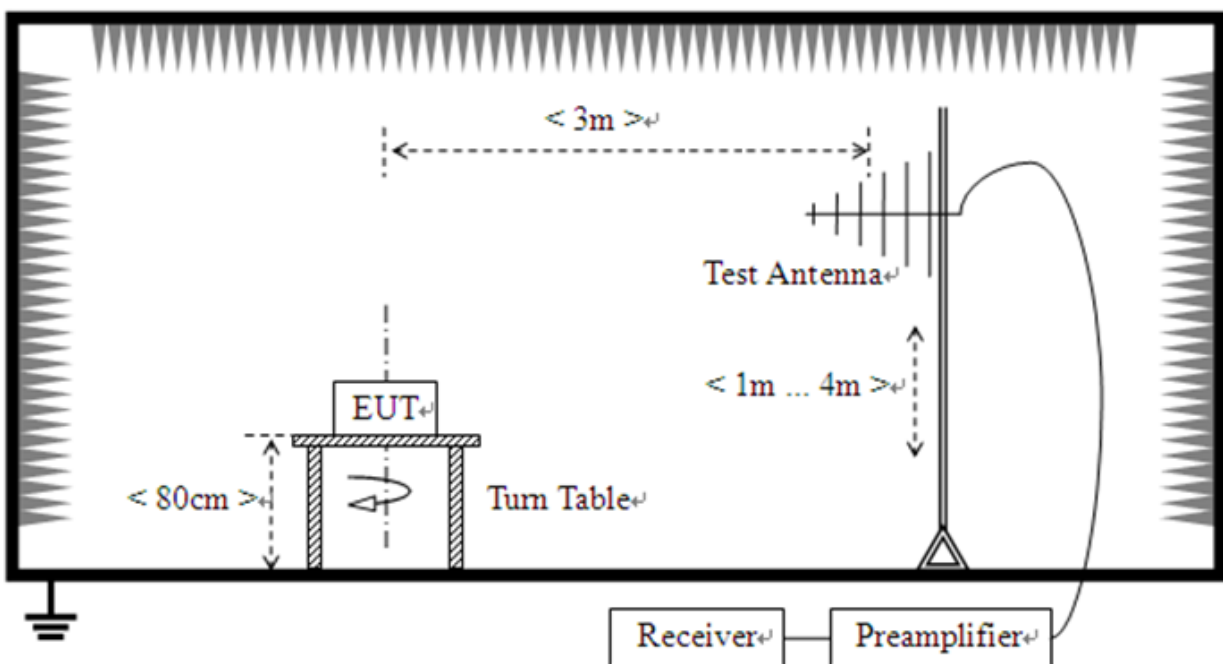
2.5.2. Test Description

Test Setup:

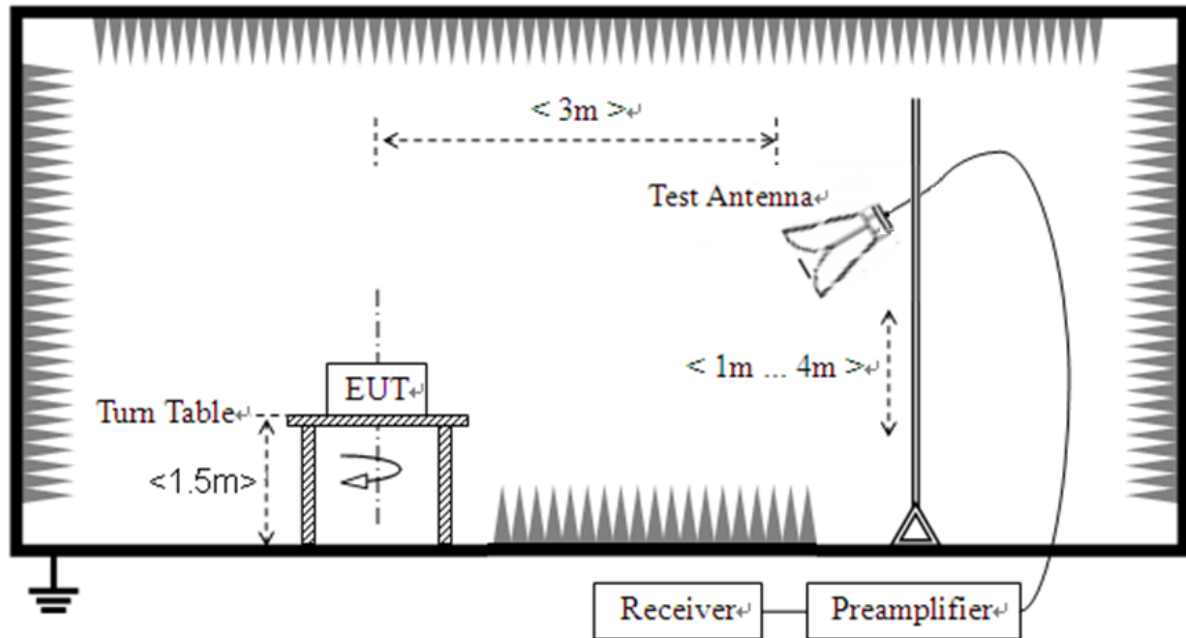
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.



2.5.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R [\text{dB}\mu\text{V}] + A_T [\text{dB}] + A_{\text{Factor}} [\text{dB/m}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

$$L_{\text{Cable loss}} [\text{dB}] = L_{\text{Mixer}} [\text{dB}] + L_{\text{IF}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

When testing above 40GHz:

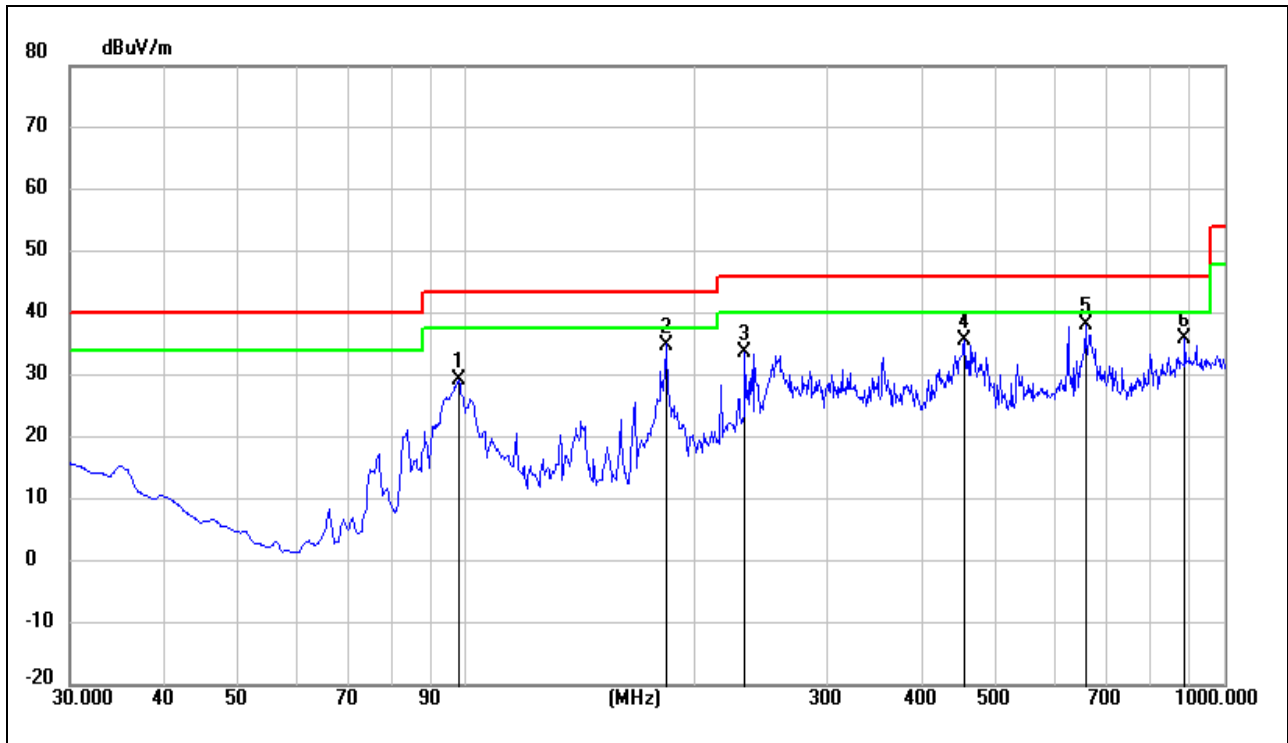
$L_{\text{mixer}} [\text{dB}]$: Conversion Loss of Mixer.

$L_{\text{IF}} [\text{dB}]$: Cable loss of the RF cable that connects the IF output of the mixer to the IF input of the spectrum.

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

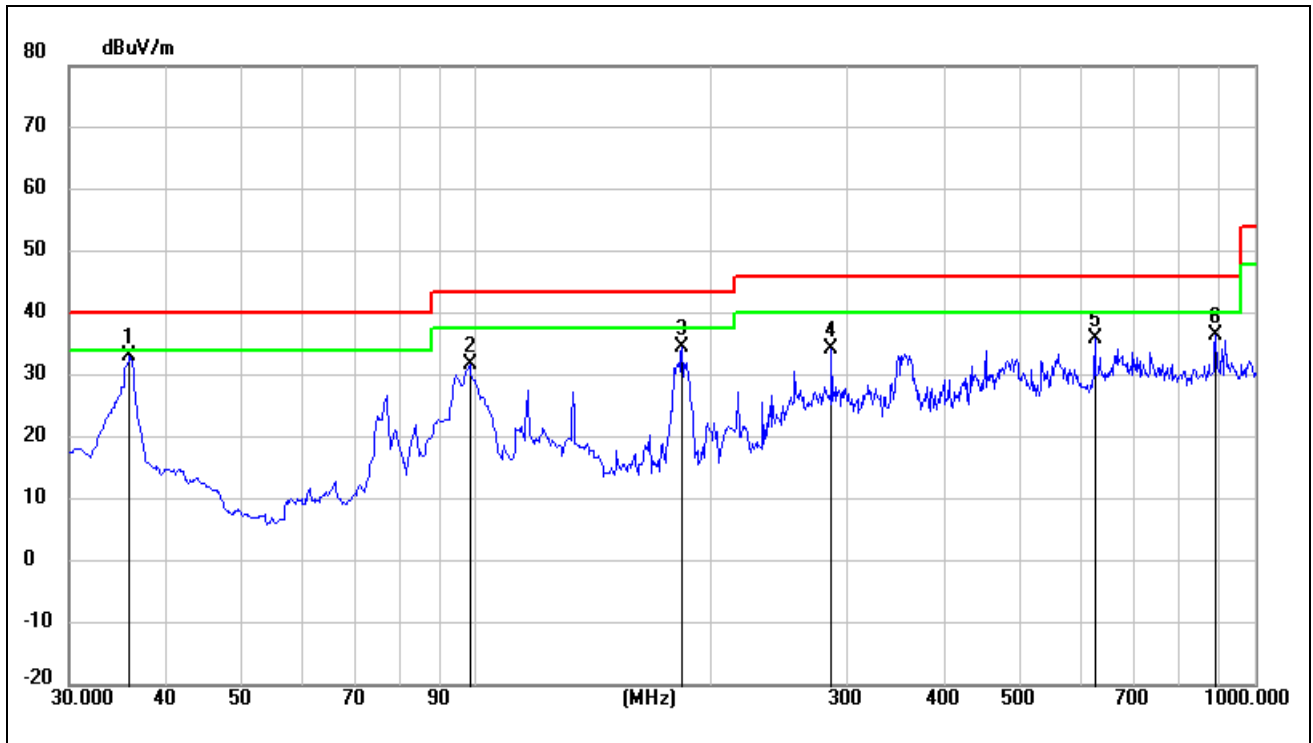
Note 1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note 2: The low frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



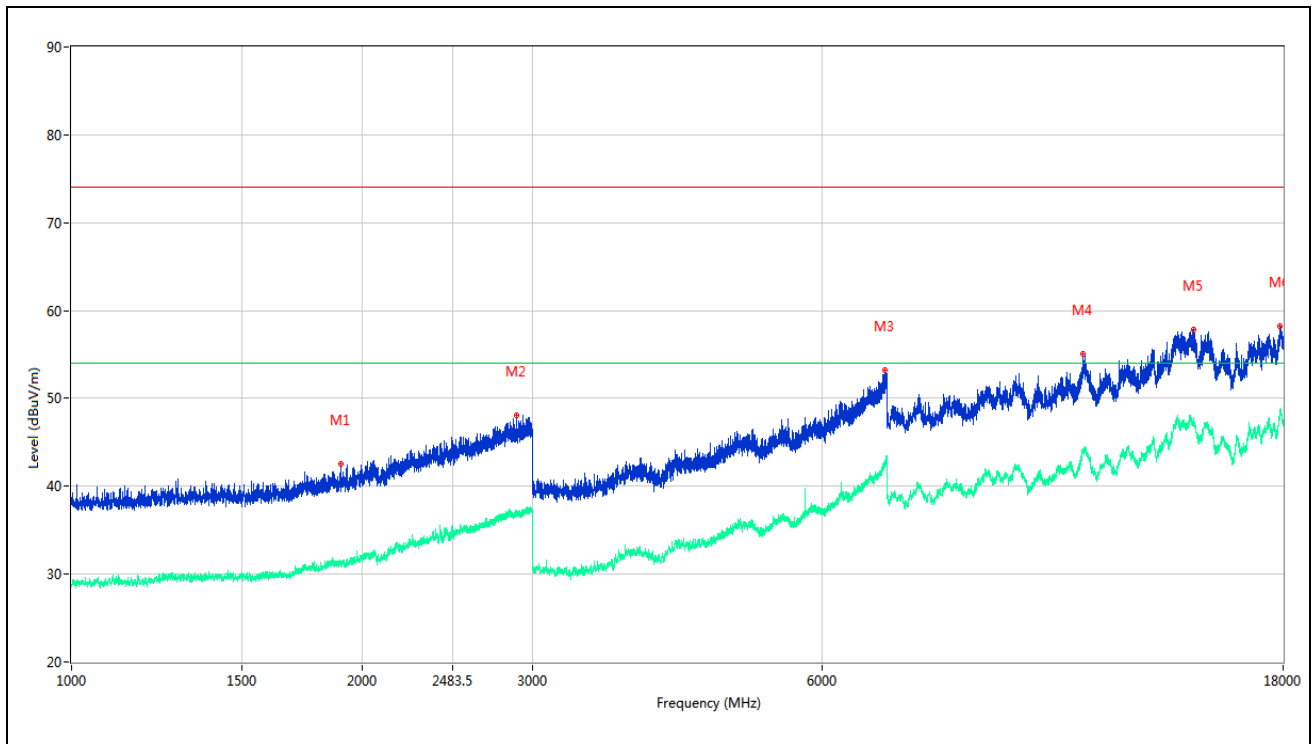
(30MHz – 1GHz, Test Antenna Horizontal)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	97.4560	49.82	-20.51	29.31	43.50	-14.19	QP	Pass
2	183.2600	55.26	-20.26	35.00	43.50	-8.50	QP	Pass
3	232.7300	52.64	-18.89	33.75	46.00	-12.25	QP	Pass
4	452.9200	45.43	-9.61	35.82	46.00	-10.18	QP	Pass
5	655.6500	43.11	-4.85	38.26	46.00	-7.74	QP	Pass
6	886.5100	36.78	-0.67	36.11	46.00	-9.89	QP	Pass



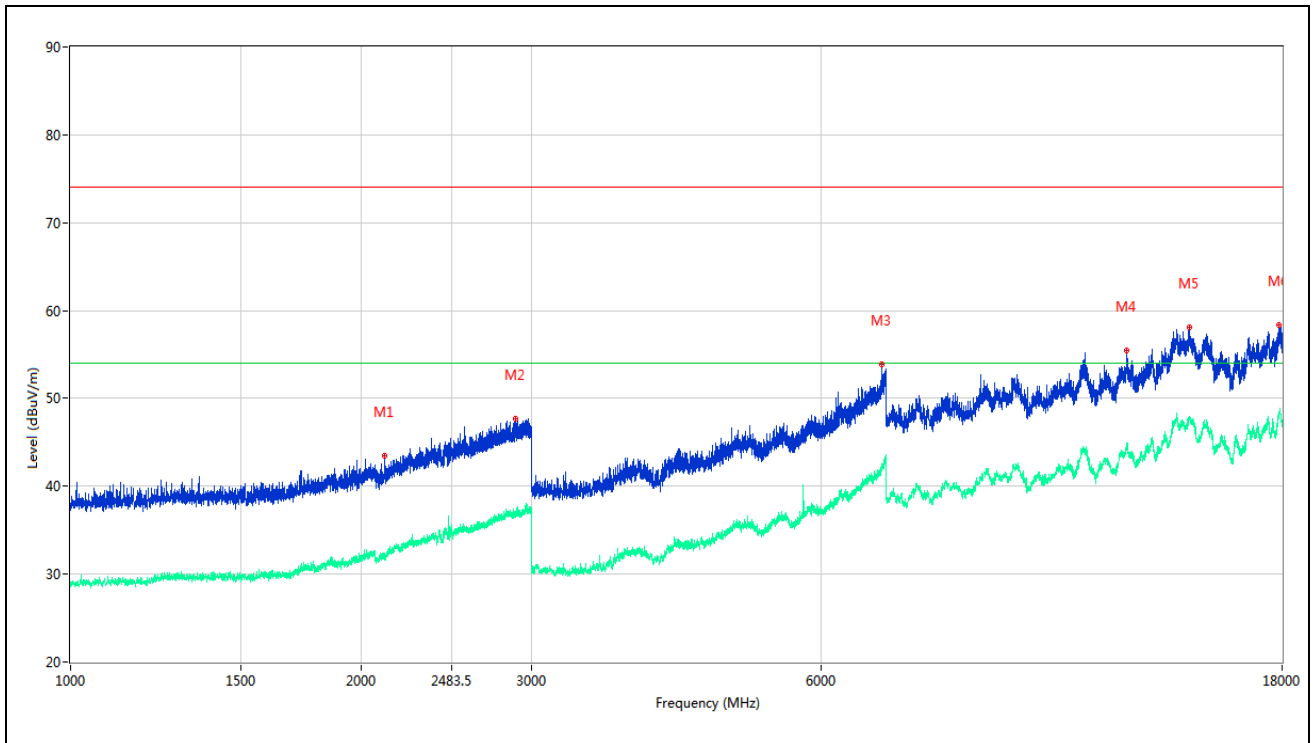
(30MHz – 1GHz, Test Antenna Vertical)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	35.8200	49.05	-15.91	33.14	40.00	-6.86	QP	Pass
2	97.9000	52.30	-20.46	31.84	43.50	-11.66	QP	Pass
3	183.2600	54.89	-20.26	34.63	43.50	-8.87	QP	Pass
4	285.1099	49.78	-15.43	34.35	46.00	-11.65	QP	Pass
5	621.7000	41.39	-5.42	35.97	46.00	-10.03	QP	Pass
6	888.4500	37.18	-0.68	36.50	46.00	-9.50	QP	Pass



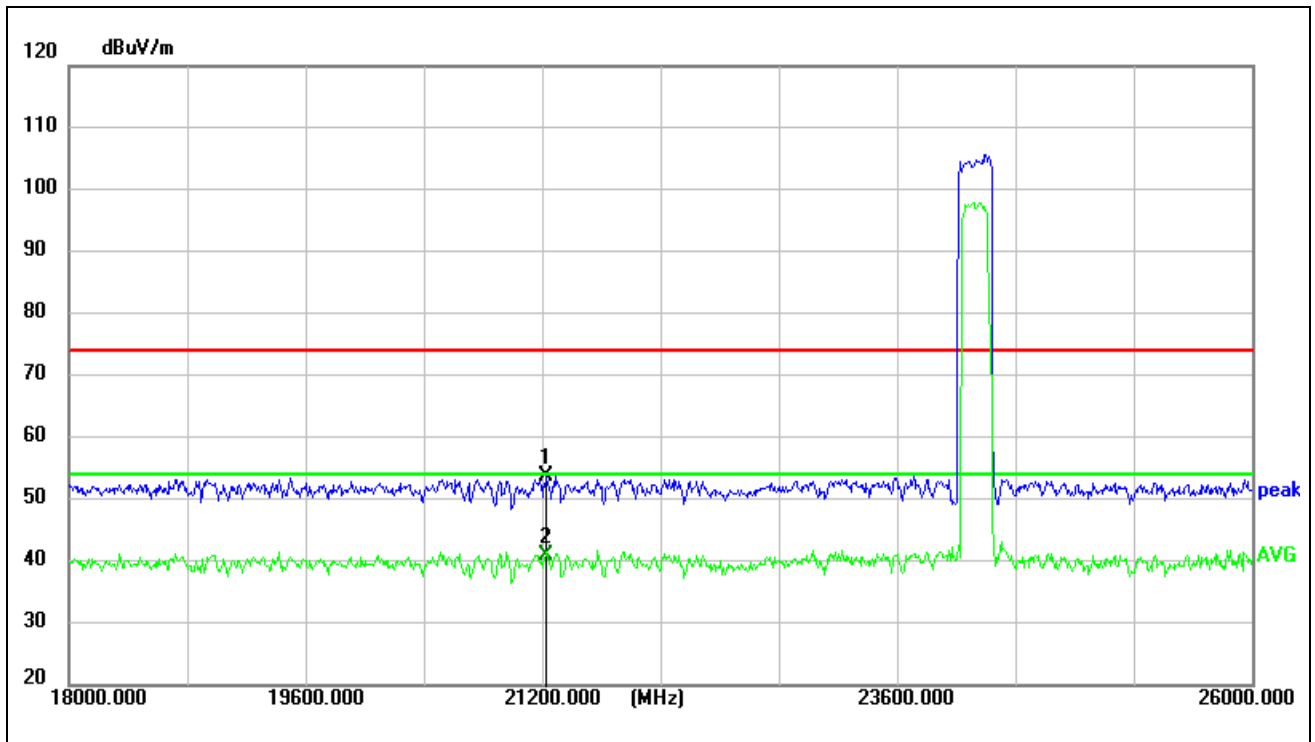
(1GHz – 18GHz, Test Antenna Horizontal)

No	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	1900.000	42.57	-0.16	74.0	-31.43	Peak	130.90	Horizontal	Pass
1	1900.000	31.01	-0.16	54.0	-22.99	AV	130.90	Horizontal	Pass
2	2893.000	48.06	4.91	74.0	-25.94	Peak	314.20	Horizontal	Pass
2	2893.000	36.56	4.91	54.0	-17.44	AV	314.20	Horizontal	Pass
3	6970.000	53.25	1.08	74.0	-20.75	Peak	4.20	Horizontal	Pass
3	6970.000	42.94	1.08	54.0	-11.06	AV	4.20	Horizontal	Pass
4	11177.250	55.10	2.50	74.0	-18.90	Peak	7.70	Horizontal	Pass
4	11177.250	44.24	2.50	54.0	-9.76	AV	7.70	Horizontal	Pass
5	14524.000	57.89	6.29	74.0	-16.11	Peak	135.10	Horizontal	Pass
5	14524.000	47.09	6.29	54.0	-6.91	AV	135.10	Horizontal	Pass
6	17867.999	58.25	6.96	74.0	-15.75	Peak	194.20	Horizontal	Pass
6	17867.999	48.24	6.96	54.0	-5.76	AV	194.20	Horizontal	Pass



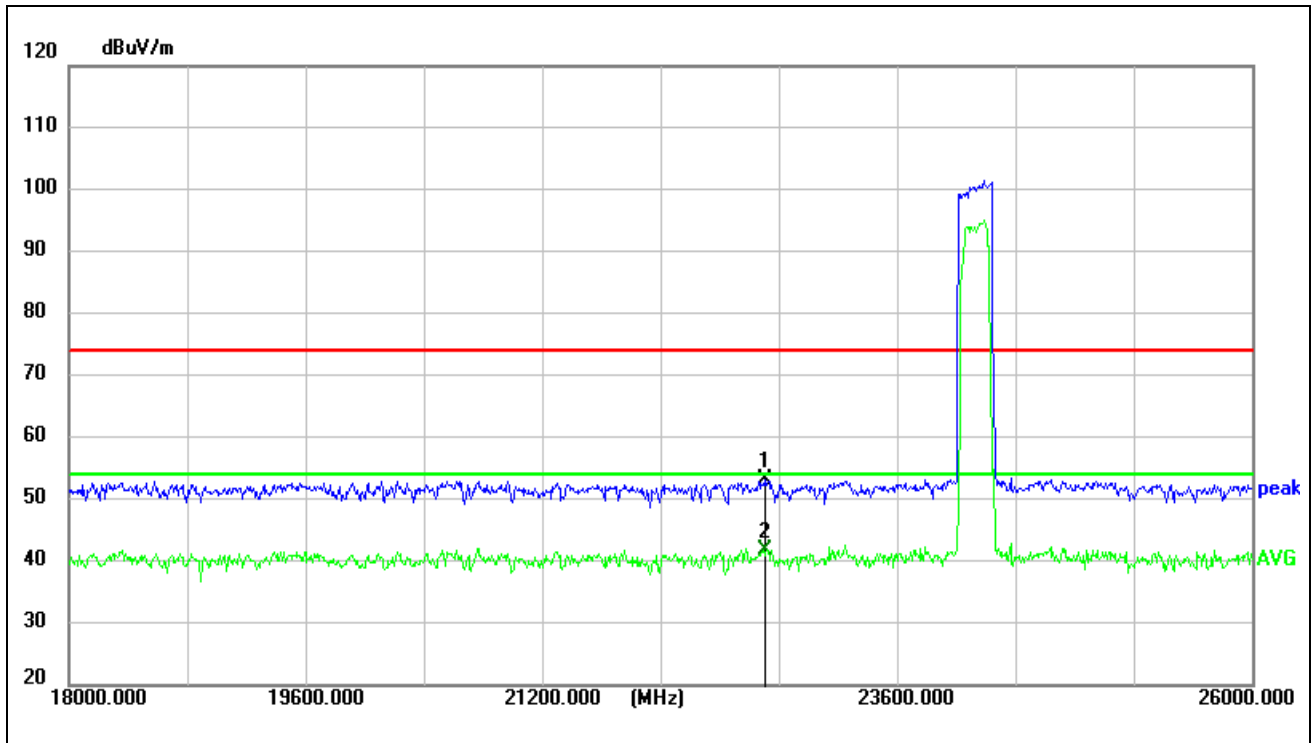
(1GHz – 18GHz, Test Antenna Vertical)

No	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	Verdict
1	2116.500	43.47	1.20	74.0	-30.53	Peak	58.60	Vertical	Pass
1	2116.500	31.99	1.20	54.0	-22.01	AV	58.60	Vertical	Pass
2	2894.500	47.71	4.91	74.0	-26.29	Peak	85.40	Vertical	Pass
2	2894.500	36.97	4.91	54.0	-17.03	AV	85.40	Vertical	Pass
3	6930.000	53.88	0.75	74.0	-20.12	Peak	17.80	Vertical	Pass
3	6930.000	42.53	0.75	54.0	-11.47	AV	17.80	Vertical	Pass
4	12436.750	55.48	2.81	74.0	-18.52	Peak	257.00	Vertical	Pass
4	12436.750	44.37	2.81	54.0	-9.63	AV	257.00	Vertical	Pass
5	14441.500	58.13	6.70	74.0	-15.87	Peak	263.70	Vertical	Pass
5	14441.500	47.58	6.70	54.0	-6.42	AV	263.70	Vertical	Pass
6	17865.251	58.31	6.94	74.0	-15.69	Peak	102.60	Vertical	Pass
6	17865.251	48.15	6.94	54.0	-5.85	AV	102.60	Vertical	Pass



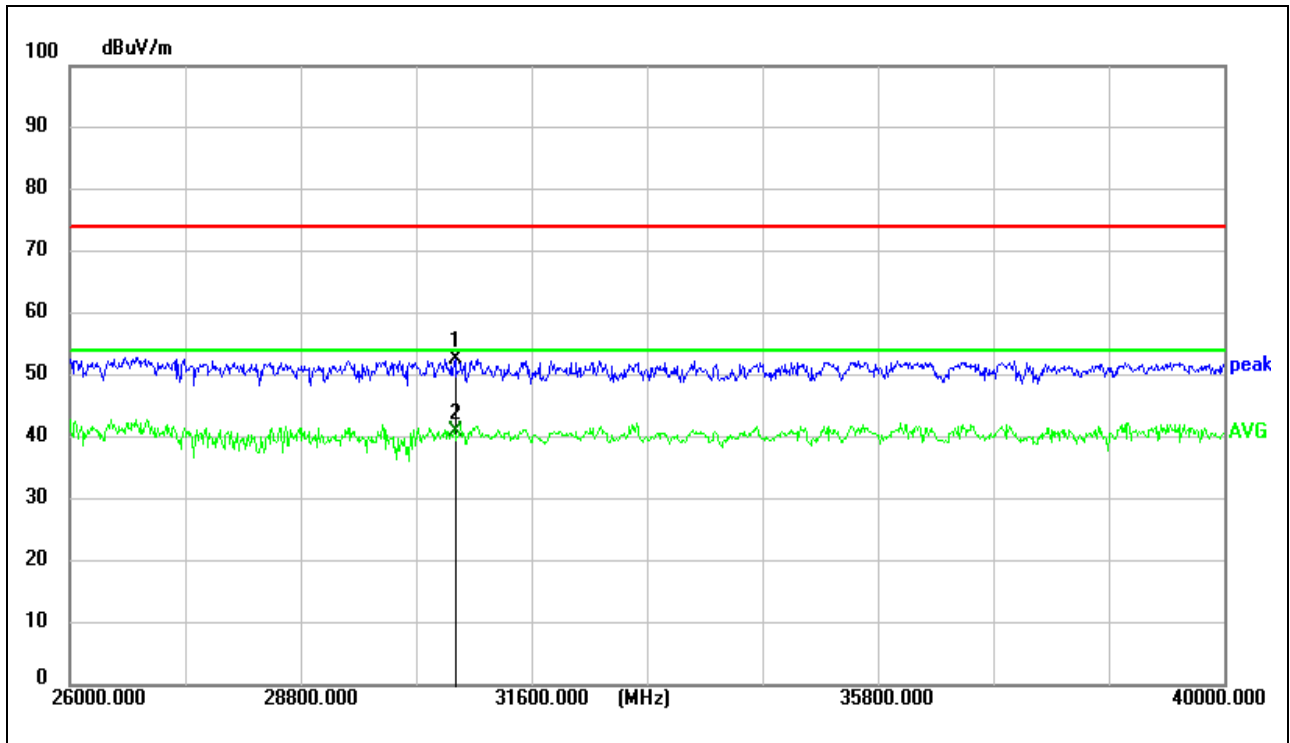
(18GHz – 26GHz, Test Antenna Horizontal)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	21232.0000	51.06	2.79	53.85	74.00	-20.15	peak	Pass
2	21232.0000	38.07	2.79	40.86	54.00	-13.14	AVG	Pass



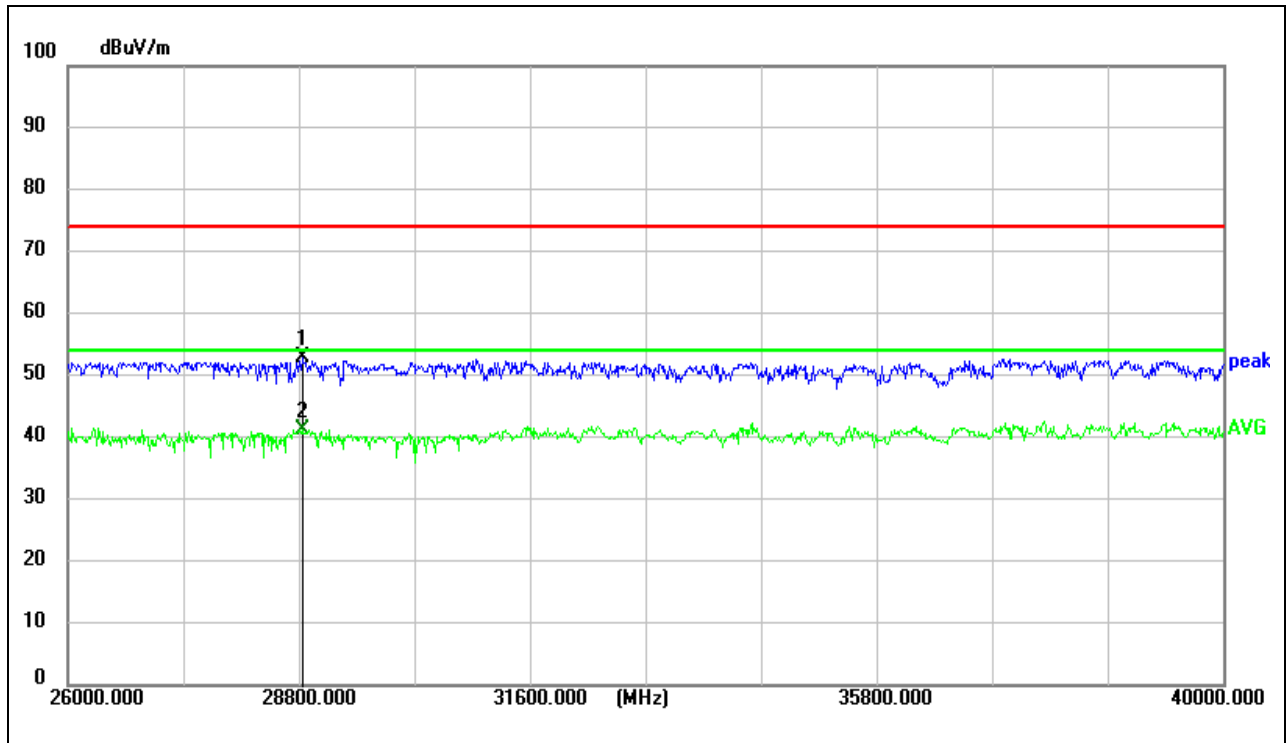
(18GHz – 26GHz, Test Antenna Vertical)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22704.0000	49.46	3.80	53.26	74.00	-20.74	peak	Pass
2	22704.0000	38.09	3.80	41.89	54.00	-12.11	AVG	Pass



(26GHz – 40GHz, Test Antenna Horizontal)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	30676.0000	43.77	8.92	52.69	74.00	-21.31	peak	Pass
2 *	30676.0000	32.13	8.92	41.05	54.00	-12.95	AVG	Pass



(26GHz – 40GHz, Test Antenna Vertical)

No.	Frequency (MHz)	Reading ()	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	28842.0000	44.20	8.74	52.94	74.00	-21.06	peak	Pass
2 *	28842.0000	32.50	8.74	41.24	54.00	-12.76	AVG	Pass



(40GHz – 100GHz, Test Antenna Horizontal)

Frequency	1.5m Result	3m Result	Correct Factor	Limit	Margin	Remark	Pol.
(GHz)	(dBuV/m)	(dBuV/m)	(dB/m)	(dBuV/m)	(dB)		
52.9260	52.18	46.16	39.13	74.00	-27.84	peak	Horizontal
52.9260	41.55	35.53	39.13	54.00	-18.47	AVG	Horizontal
53.0020	51.75	45.73	39.14	74.00	-28.27	peak	Vertical
53.0020	42.12	36.10	39.14	54.00	-17.90	AVG	Vertical
73.0230	52.25	46.23	42.36	74.00	-27.77	peak	Horizontal
73.0230	43.41	37.39	42.36	54.00	-16.61	AVG	Horizontal
72.9540	53.47	47.45	42.36	74.00	-26.55	peak	Vertical
72.9540	42.99	36.97	42.36	54.00	-17.03	AVG	Vertical
76.9670	53.08	47.06	43.64	74.00	-26.94	peak	Horizontal
76.9670	43.56	37.54	43.64	54.00	-16.46	AVG	Horizontal
77.0160	52.82	46.80	43.64	74.00	-27.20	peak	Vertical
77.0160	43.64	37.62	43.64	54.00	-16.38	AVG	Vertical

Note:

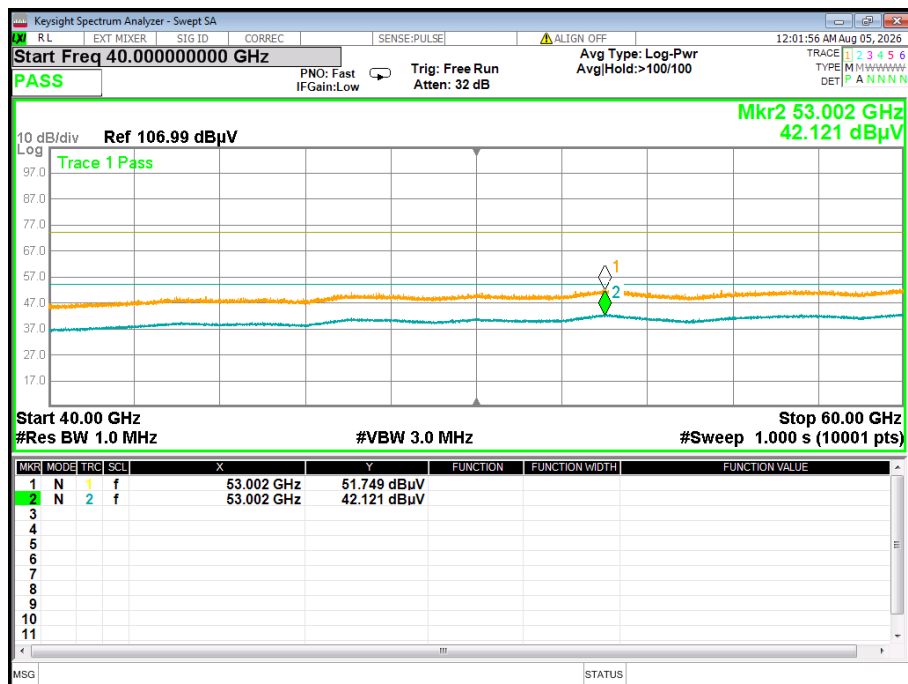
$$Mes@3m = Mes@1.5m + 20 \cdot \log(1.5m/3m)$$

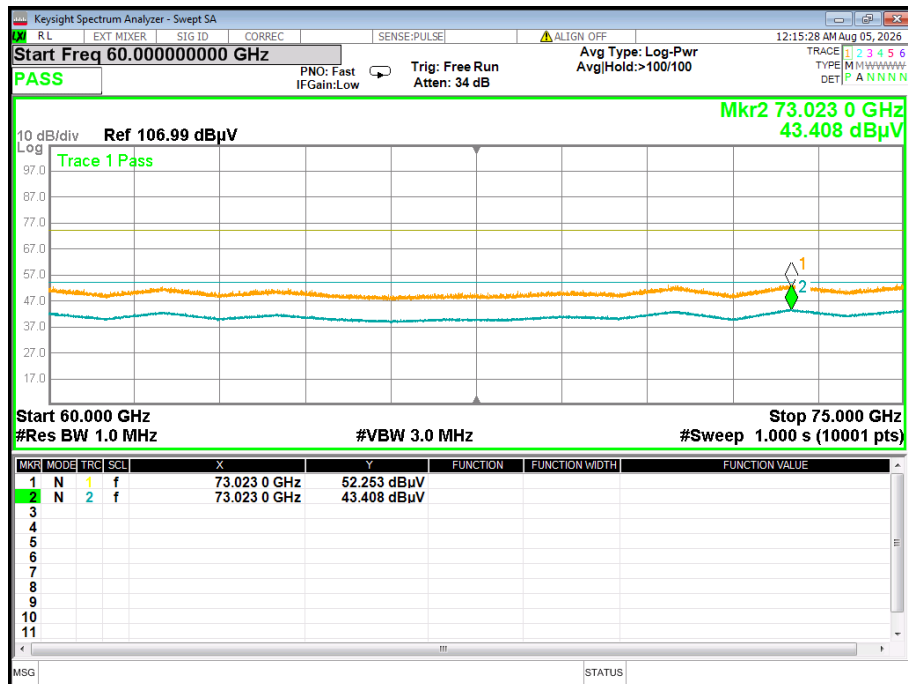


40GHz - 60GHz
Horizontal

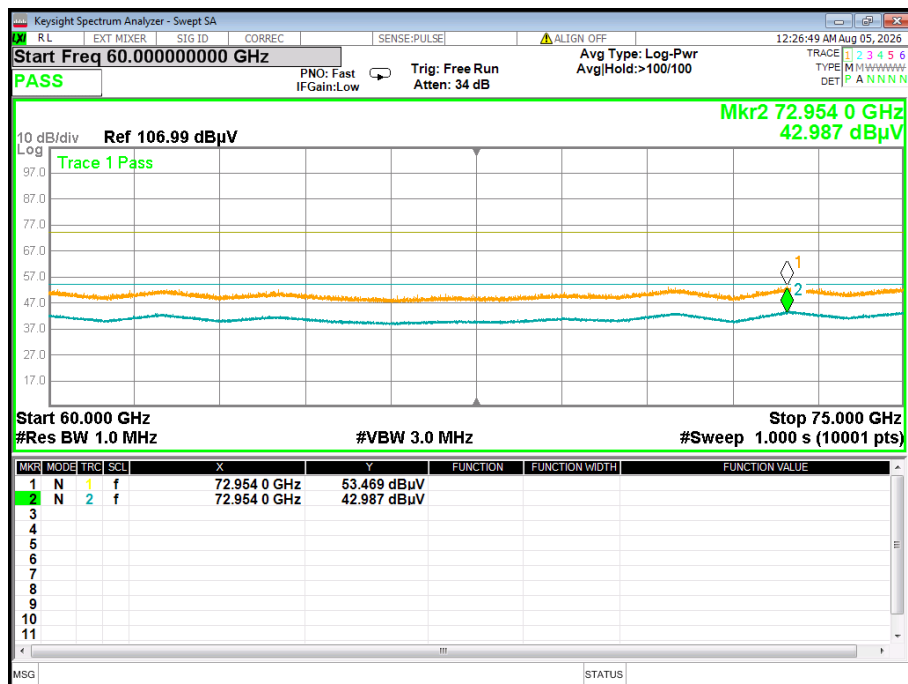


Vertical



60GHz - 75GHz-
Horizontal

Vertical



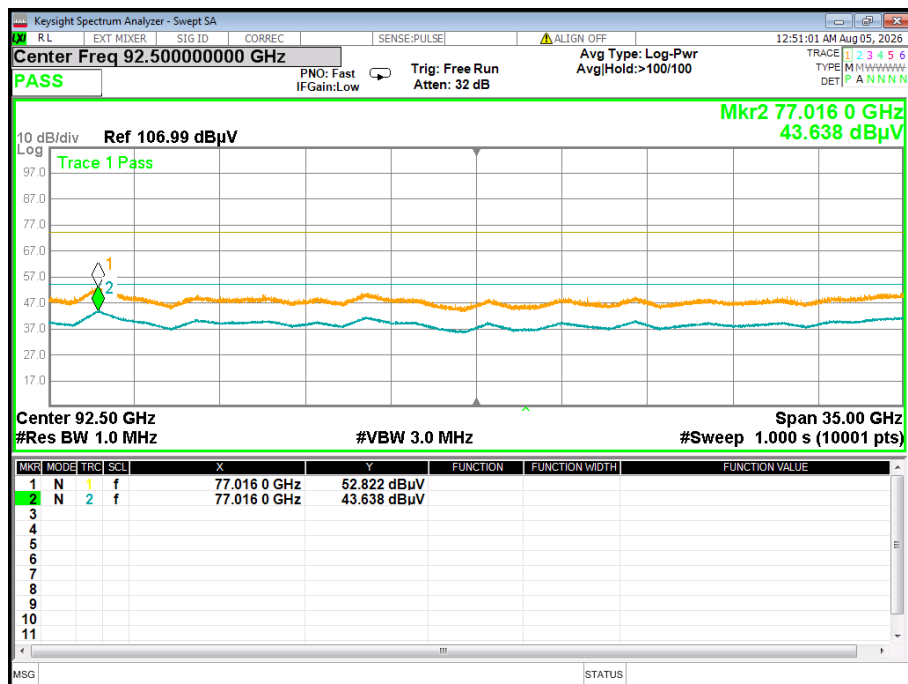


75GHz - 100GHz

Horizontal

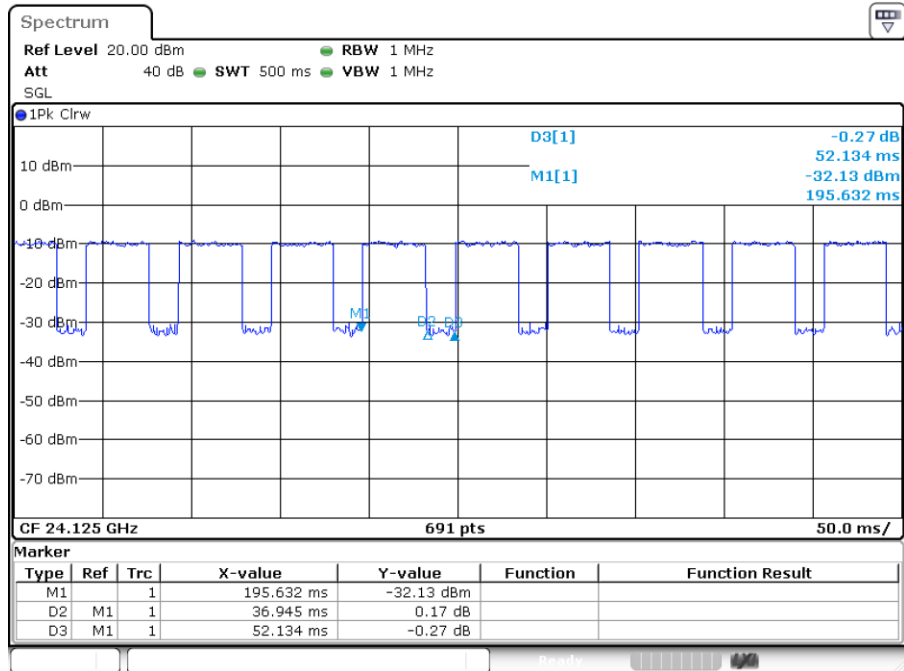


Vertical

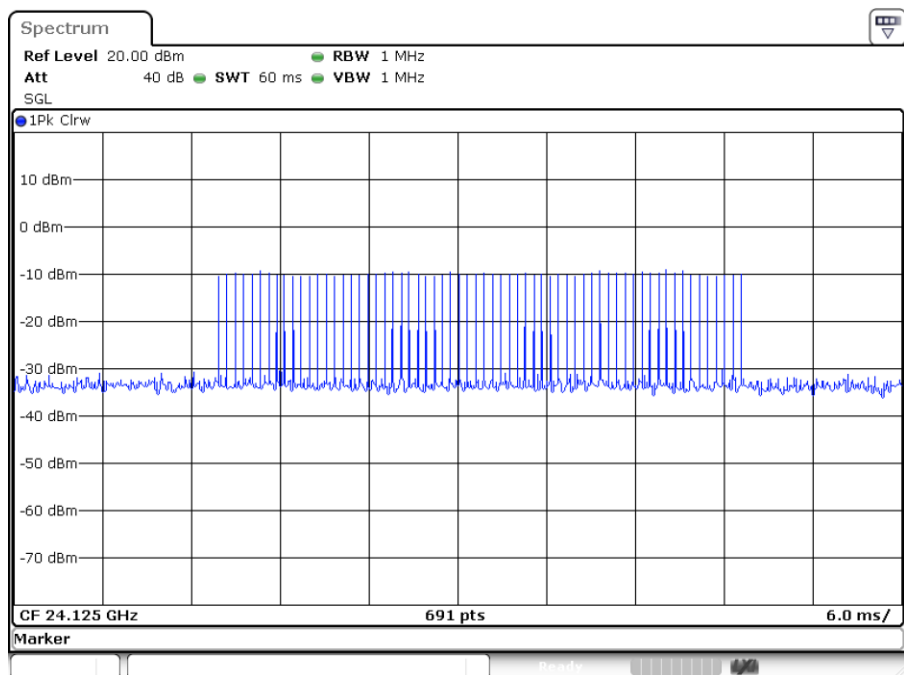




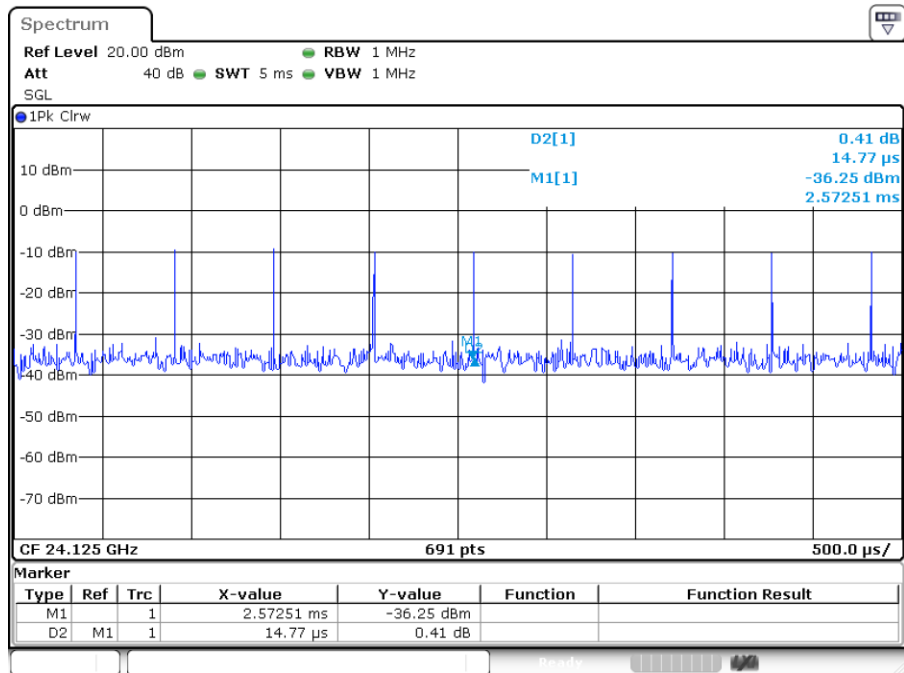
Duty cycle-1



Duty cycle-2



Duty cycle-3



Ton (ms)	Tp (ms)	Duty Cycle (%)	Duty Factor
0.94528	52.134	1.81	-34.83

Note1: Duty Factor= $20 \times \text{LOG}_{10}((\text{Ton}/\text{Tp}))$

Note2: Number of pulse train 1 = 64, Time of single pulse train 1 = 0.01477ms;

Total on interval in a complete pulse train= Number of pulse train 1x Time of single pulse train 1=64*0.01477ms=0.94528



Annex A Test Uncertainty

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.:

Uncertainty of Radiated Emission Measurement

Test Items	Uncertainty
Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	±5%

Uncertainty of Radiated Emission Measurement

Test Items	Uncertainty	
Measuring Uncertainty for a Level of Confidence of 95%(U=2Uc(y))	30MHz-200MHz	±5.06dB
	200MHz-1000MHz	±5.04dB
	1GHz-6GHz	±5.18dB
	6GHz-18GHz	±5.48dB



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.1-3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2020 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



4. Test Equipment Utilized

4.1 Radiated Test Equipment

Equipment	Serial No.	Model No.	Manufacturer	Cal. Date	Due Date
Signal Analyzer	1331.5003K4 3-102271-zt	FSW	R&S	2026.05.12	2027.05.11
Test Antenna - Horn	02634	BBHA 9120D	Schwarzbeck	2026.06.29	2027.06.28
Test Antenna -Horn	BBHA9170#7 73	BBHA9170	Schwarzbeck	2026.06.20	2027.06.19
Test Antenna -Loop	00131	FMZB 1519B	Schwarzbeck	2025.09.08	2026.09.07
Test Antenna - Bi-Log	01267	VULB9163	Schwarzbeck	2026.07.16	2027.07.15
Test Antenna -Horn (40GHz -60GHz)	2020036000 036	LB-19-20-A	A-INFOMW	2022.06.16	2027.06.15
Test Antenna -Horn (60GHz -90GHz)	J202026347	LB-19-20-A	A-INFOMW	2022.06.16	2027.06.15
Test Antenna -Horn (90GHz -140GHz)	J202062617	LB-19-20-A	A-INFOMW	2022.06.16	2027.06.15
Signal Generator	203403	MG3692C	anritsu	2025.09.03	2026.09.02
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2026.05.13	2027.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2026.05.13	2027.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118- 40C-S	Decentest	2026.05.13	2027.05.12
Low Noise Amplifier (40GHz-60GHz)	ADSE01	OQ-LNA-406 0-3805C	Shanghai Ouqiao Electronics Technology Co.,Ltd	2024.08.17	2026.08.17
Low Noise Amplifier (60GHz-90GHz)	ADJU05	OQ-LNA-609 0-3805T	Shanghai Ouqiao Electronics Technology	2024.08.17	2026.08.17



			Co.,Ltd		
Low Noise Amplifier (90GHz-140GHz)	AEMA02	AT-LNA-9014 0-1806E	Shanghai AT Microwave Ltd.	2025.02.26	2027.02.25
Spectrum Analyzer Frequency Conversion Module(40GHz-60 GHz)	2022081902	SAFC19	Nanjing Nuozhijie Electronic Technology Co.,Ltd	2026.06.11	2027.06.10
Spectrum Analyzer Frequency Conversion Module(60GHz-90 GHz)	2022081904	SAFC12	Nanjing Nuozhijie Electronic Technology Co.,Ltd	2026.06.11	2027.06.10
Spectrum Analyzer Frequency Conversion Module(90GHz-140 GHz)	2023022002	SAFC08	Nanjing Nuozhijie Electronic Technology Co.,Ltd	2025.02.28	2027.02.27
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2026.05.13	2027.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2026.05.13	2027.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2026.05.13	2027.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2025.09.03	2026.09.02
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.06.21	2028.06.20
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18

**4.2 Conducted Emission Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	101052	ESPI	R&S	2026.05.15	2027.05.14
LISN	103131	ENV 216	R&S	2026.04.18	2027.04.17
INTELLIGENT PURE SINE-WAVE POWER SUPPLY	1008004	TPS 500B	EVERFINE	2025.09.11	2026.09.10
RF Coaxial Cable (DC-100MHz)	EMC-CE-00514	N/A	N/A	2026.05.06	2027.05.05

4.3 Test Software Utilized

Description	Manufacturer	Software Version
TS+ -[JS36-RSE]	Tonscend	5.0.0
TS+ -[JS32-CE]	Tonscend	2.5.0.0
DC-EMC	Decentest	V01.30



Notes

1. The report shall have report stamp or our company stamp.
2. The report shall be invalid without all the signatures of the editor and approver.
3. The report shall not be changed.
4. Any objections must be raised to Morlab within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.
5. Conformity declaration:
 - ☒ Morlab issues a statement of conformity based on the corresponding standards (default)
 - ☐ Morlab issues a statement of conformity based on the applicant requirement
6. Use of uncertainty of measurement for decisions on conformity (decision rule):

No decision rule is specified by the testing standard, when comparing the measurement result with the applicable limit according to the specification in that standard. The decisions on conformity are made without applying the measurement uncertainty ("simple acceptance" decision rule).

_____ END OF REPORT _____